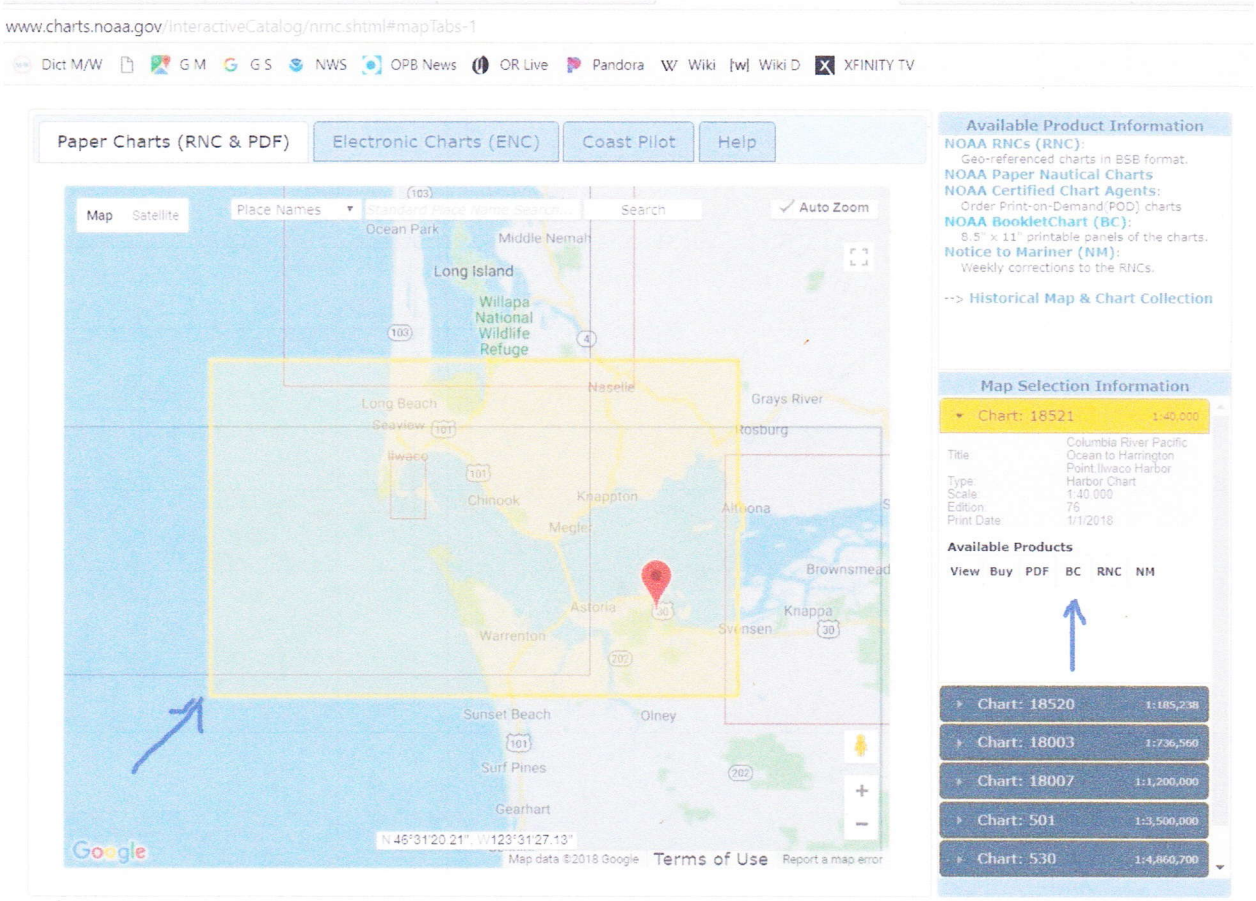
NOAA and Caltopo Printouts
OOPS Meeting Aug 22, 2018
Peter Carew

NOAA BookletCharts

1. **Find and get the NOAA chart to use**:
   http://www.charts.noaa.gov/InteractiveCatalog/nrnc.shtml#mapTabs-1
   Use the "+" enlarging control on the interactive amp to drill down to the area of interest, then click on a map to highlight it and check to see if there is a "BC" for Bookletchart available - see below.



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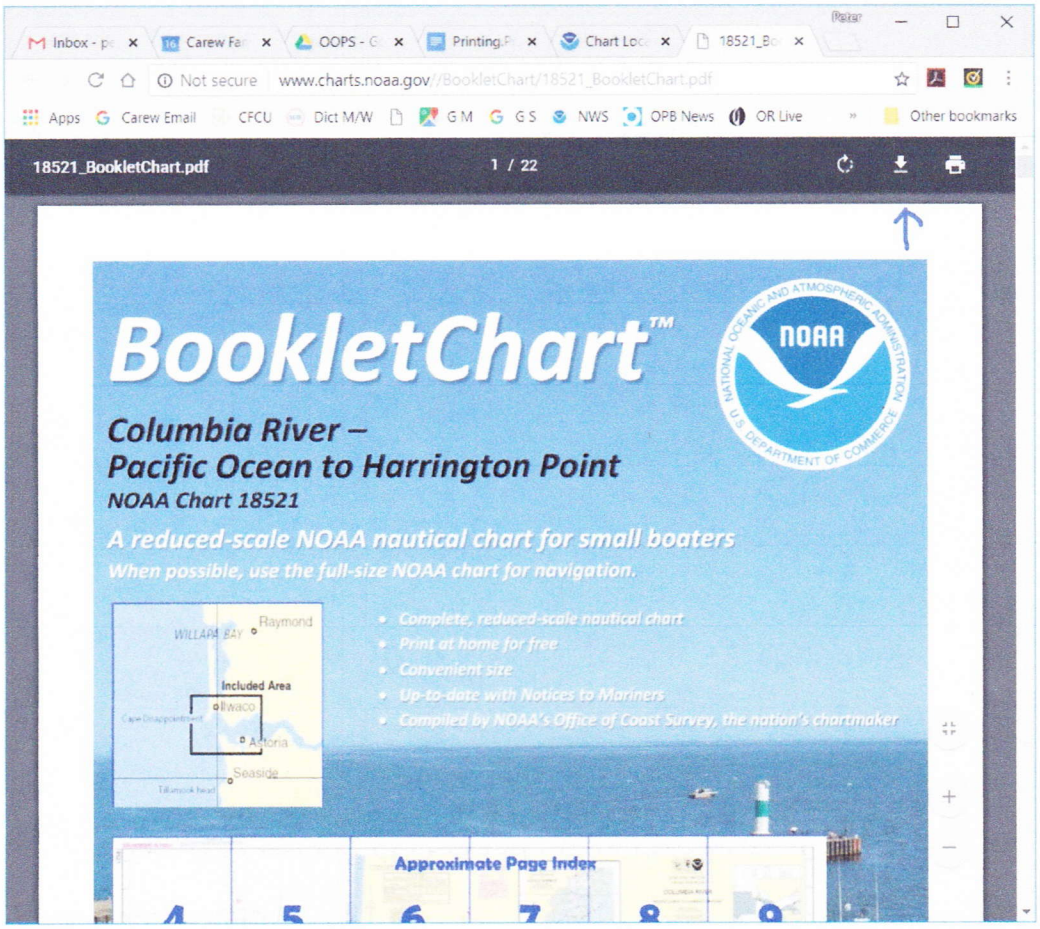
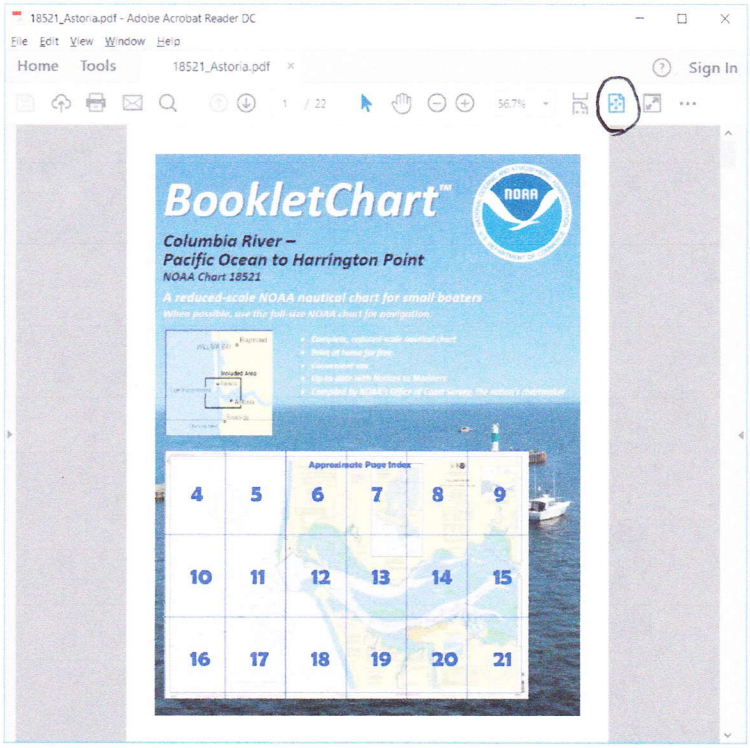
The "BC" box, with the mouse over it, should say "download/view booklet chart" and you can then click on it to load it into your browser. Choose the arrow down option to download it to your PC - see below.



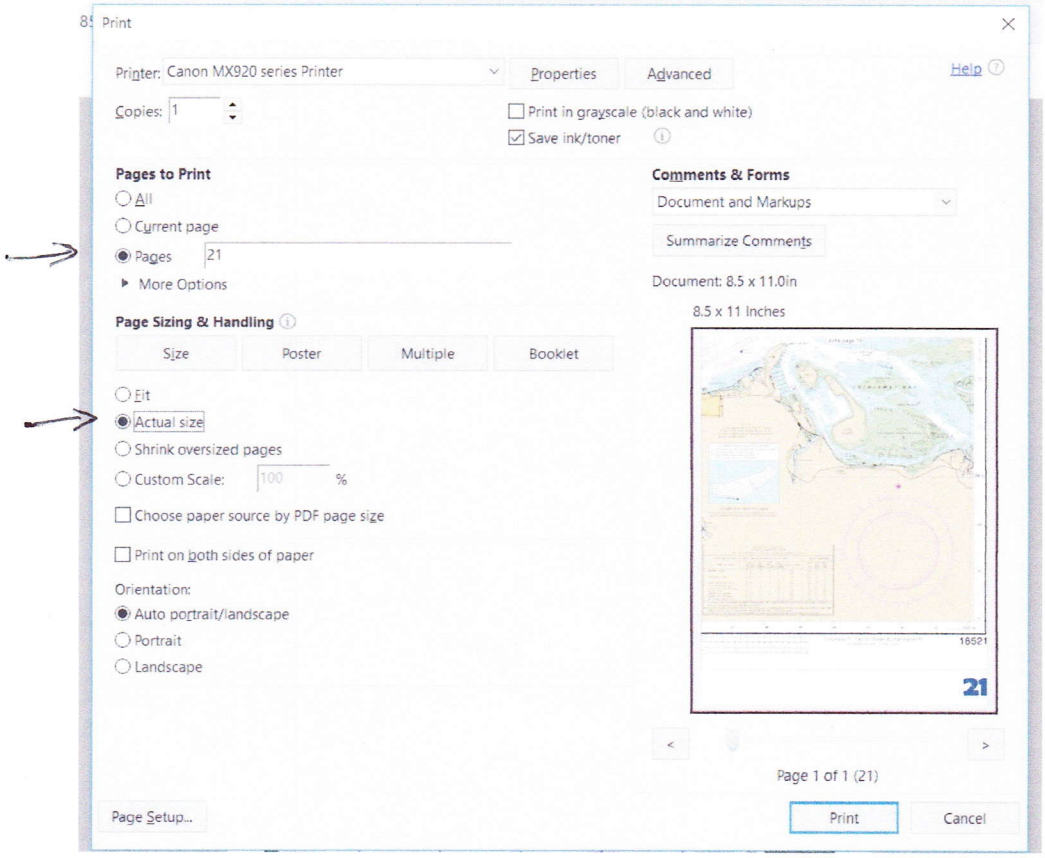
Pick a directory on your PC that you will remember and change the name to whatever you want, such as *18521_Astoria.pdf*, and be sure to remember that name.

2. Print the pages of interest:

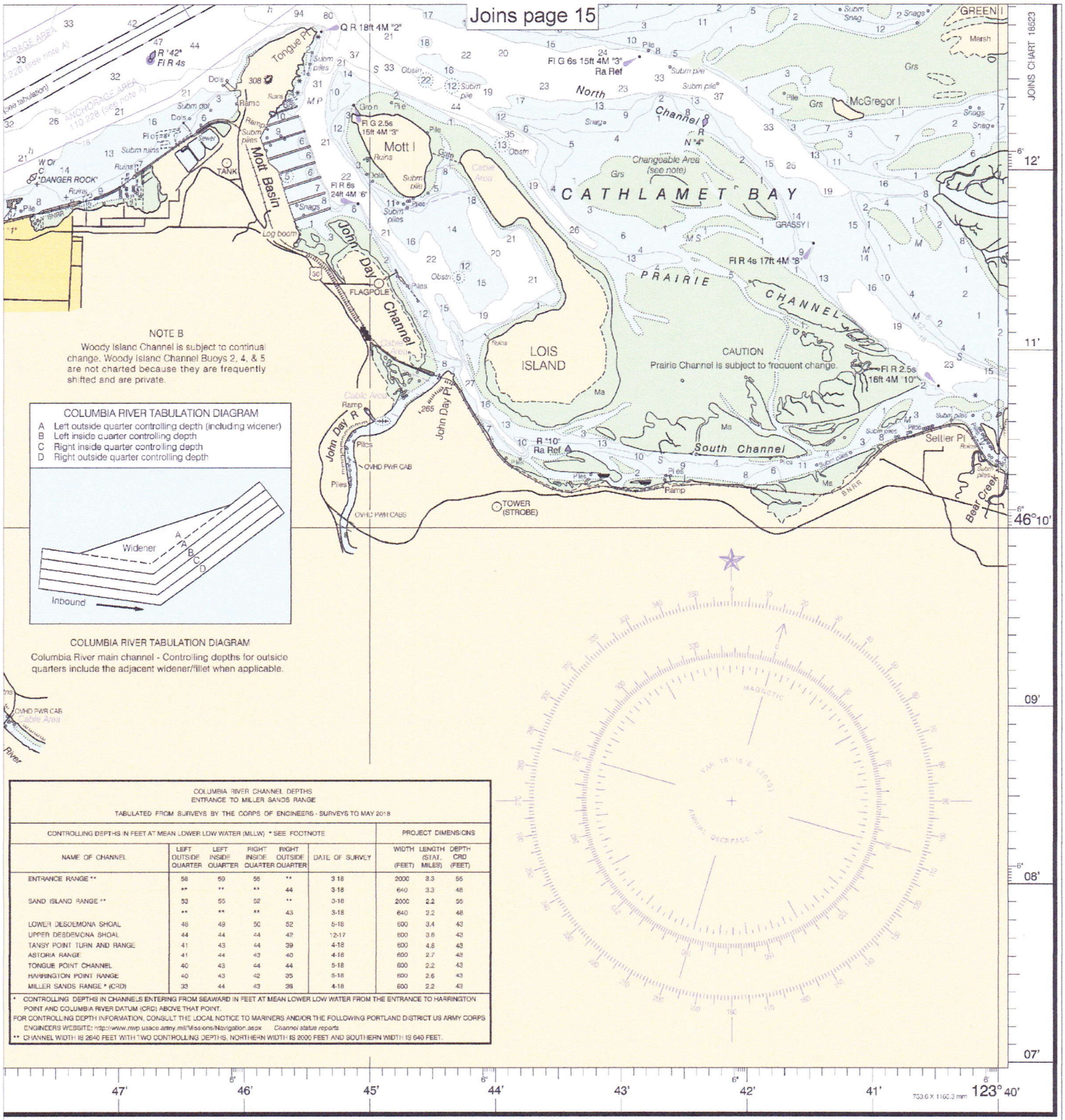
- Get the free Adobe Acrobat Reader version if you don't already have either it or a paid version: https://get.adobe.com/reader/
- Open the chart on the PC, usually by double clicking on the file in a directory view such as with *file explorer*.
- Adobe Acrobat should come up with the chart chosen - see below.
- Adjust the view to whatever magnification is desired with the + or - controls or with the icon controls, such as the view one page control in blue in the example below.



Identify the page or pages you want to print, use size "actual" and click the print icon.



Joins page 15



NOTE B

Woody Island Channel is subject to continual change. Woody Island Channel Buoys 2, 4, & 5 are not charted because they are frequently shifted and are private.

COLUMBIA RIVER TABULATION DIAGRAM

A Left outside quarter controlling depth (including widener)
B Left inside quarter controlling depth
C Right inside quarter controlling depth
D Right outside quarter controlling depth

COLUMBIA RIVER TABULATION DIAGRAM

Columbia River main channel - Controlling depths for outside quarters include the adjacent widener/fillet when applicable.

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO MAY 2018

CONTROLLING DEPTHS IN FEET AT MEAN LOWER LOW WATER (MLLW) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ENTRANCE RANGE **	58	59	55	**	3-18	2000	3.3	55
	**	**	**	44	3-18	640	3.3	48
SAND ISLAND RANGE **	53	55	52	**	3-18	2000	2.2	55
	**	**	**	43	3-18	640	2.2	48
LOWER DESDEMONA SHOAL	48	49	50	52	5-18	600	3.4	43
UPPER DESDEMONA SHOAL	44	44	44	42	12-17	600	3.6	43
TANSY POINT TURN AND RANGE	41	43	44	39	4-18	600	4.8	43
ASTORIA RANGE	41	44	43	40	4-18	600	2.7	43
TONGUE POINT CHANNEL	40	43	44	44	5-18	600	2.2	43
HARRINGTON POINT RANGE	40	43	42	35	5-18	600	2.6	43
MILLER SANDS RANGE * (CRD)	33	44	43	36	4-18	600	2.2	43

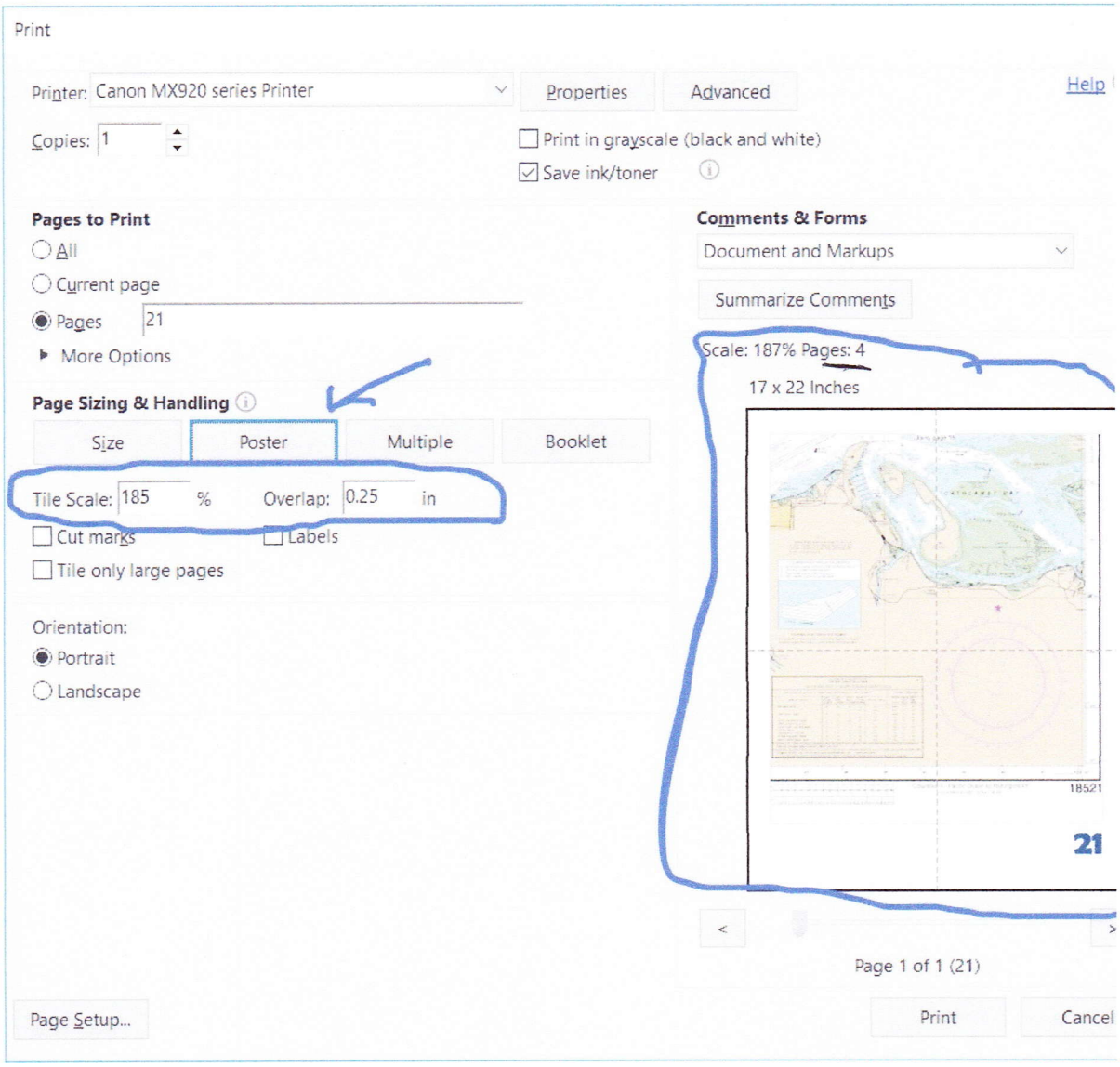
* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM (CRD) ABOVE THAT POINT.
FOR CONTROLLING DEPTH INFORMATION, CONSULT THE LOCAL NOTICE TO MARINERS AND/OR THE FOLLOWING PORTLAND DISTRICT US ARMY CORPS ENGINEERS WEBSITE: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*
** CHANNEL WIDTH IS 2640 FEET WITH TWO CONTROLLING DEPTHS, NORTHERN WIDTH IS 2000 FEET AND SOUTHERN WIDTH IS 640 FEET.

Columbia R., Pacific Ocean to Harrington Pt.

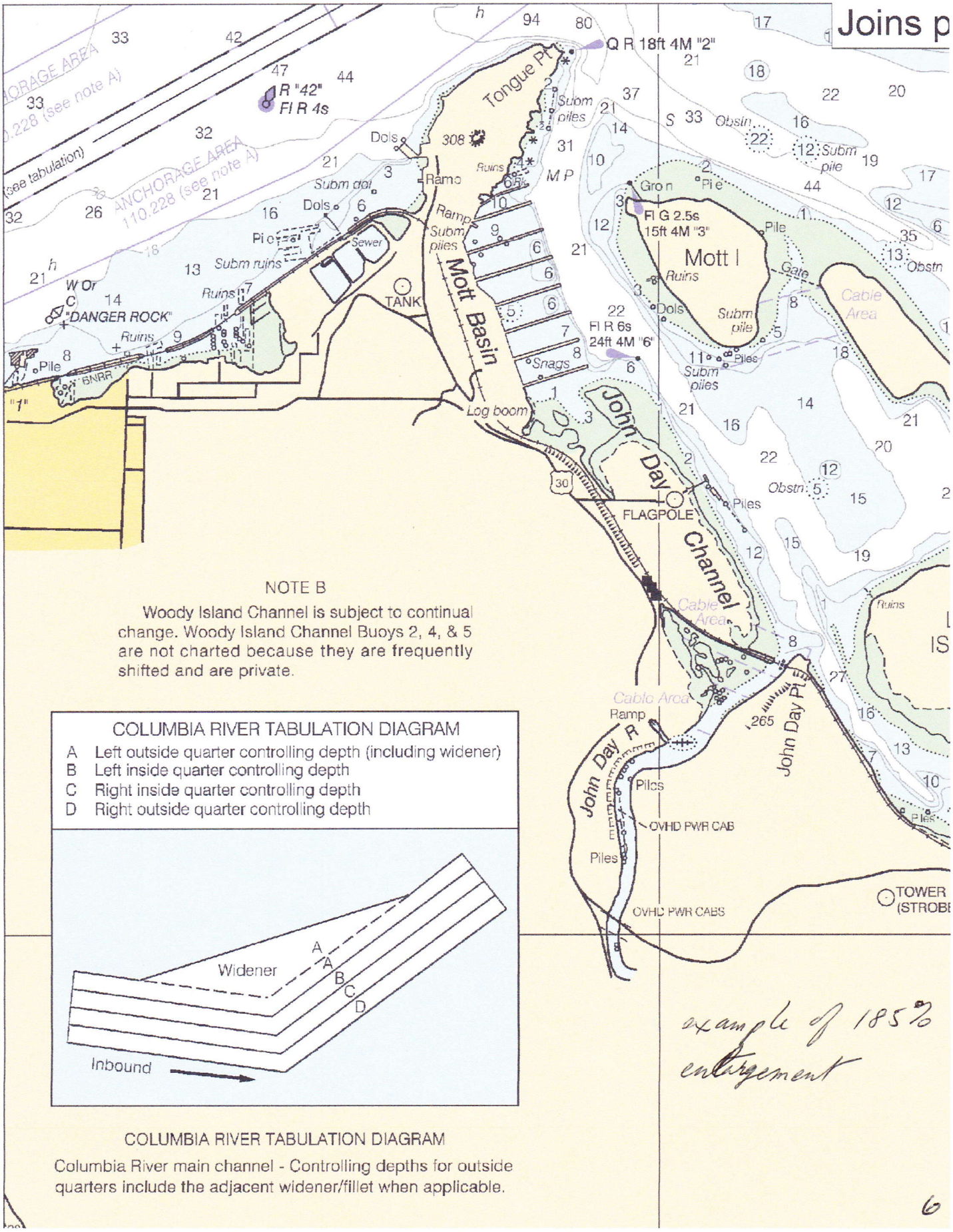
SOUNDINGS IN FEET - SCALE 1:40,000

18521

If the one page printout of a booklet chart page makes the chart detail too small to read comfortably, enlarge the printout. The below example prints the 1 bookletchart page onto 4 pages by using 185% enlargement and .25 inches overlap. Another enlargement option is 125% and .25 inches overlap for just 2 pages.



There are alternate ways of enlarging. One other way is taking a screen shot of the chart and running it through another program such as Microsoft Paint, cropping it and enlarging it there and then printing it.



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example of 185% enlargement

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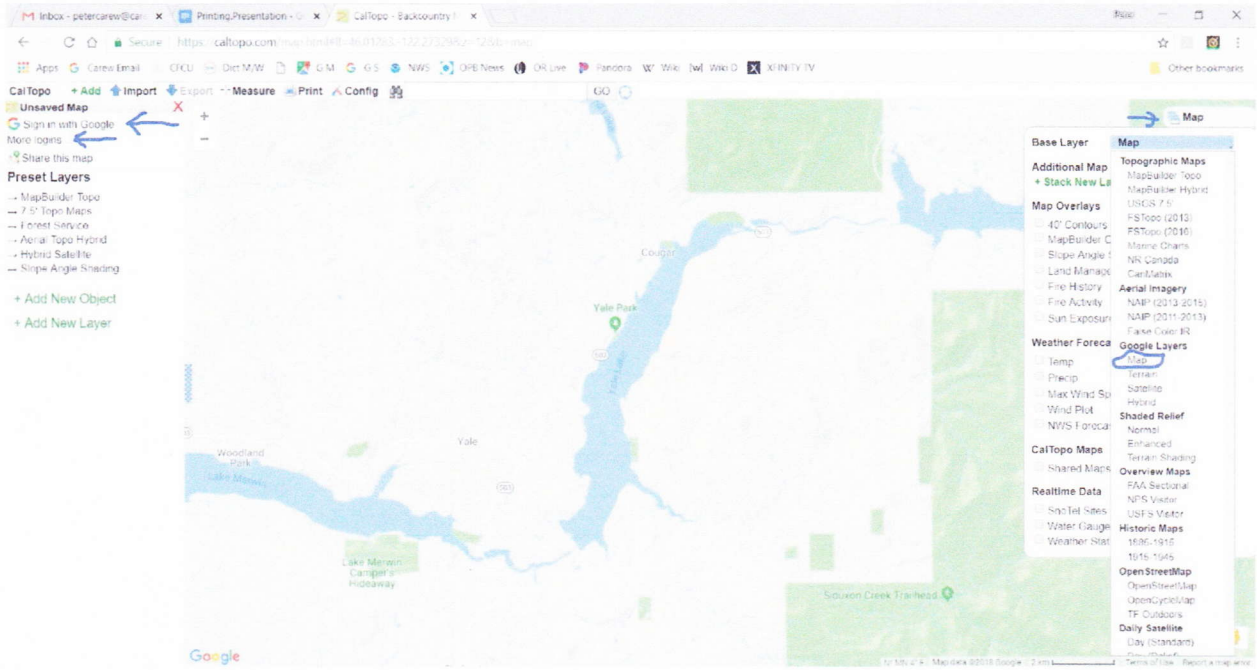
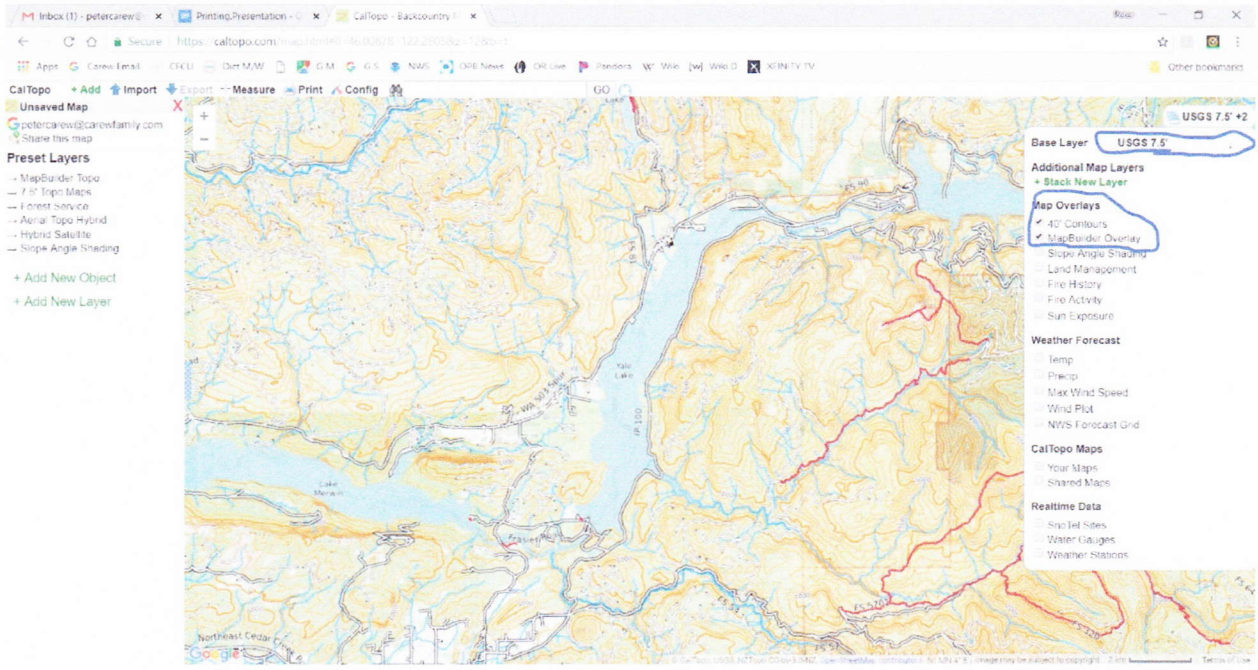
Caltopo River and Lake Maps

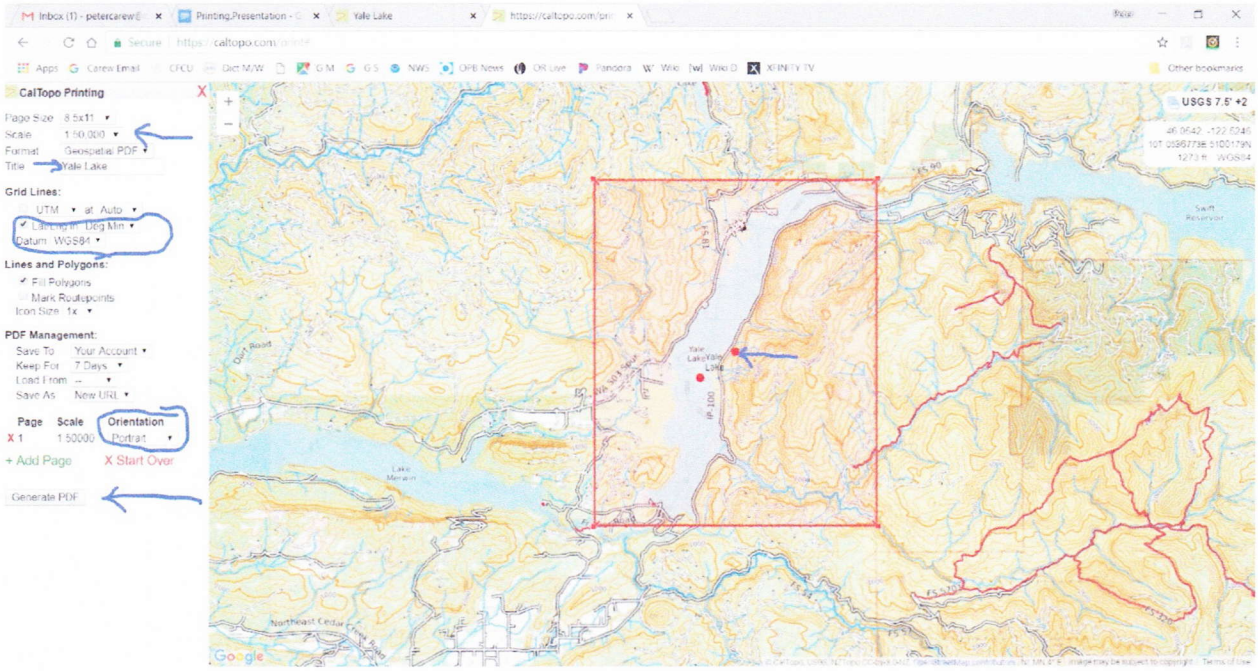
Go to Caltopo website: https://caltopo.com
Sign in in the upper left using your preferred method, such as google or facebook.
To navigate to the river or lake of interest, making a base layer be google maps is useful.



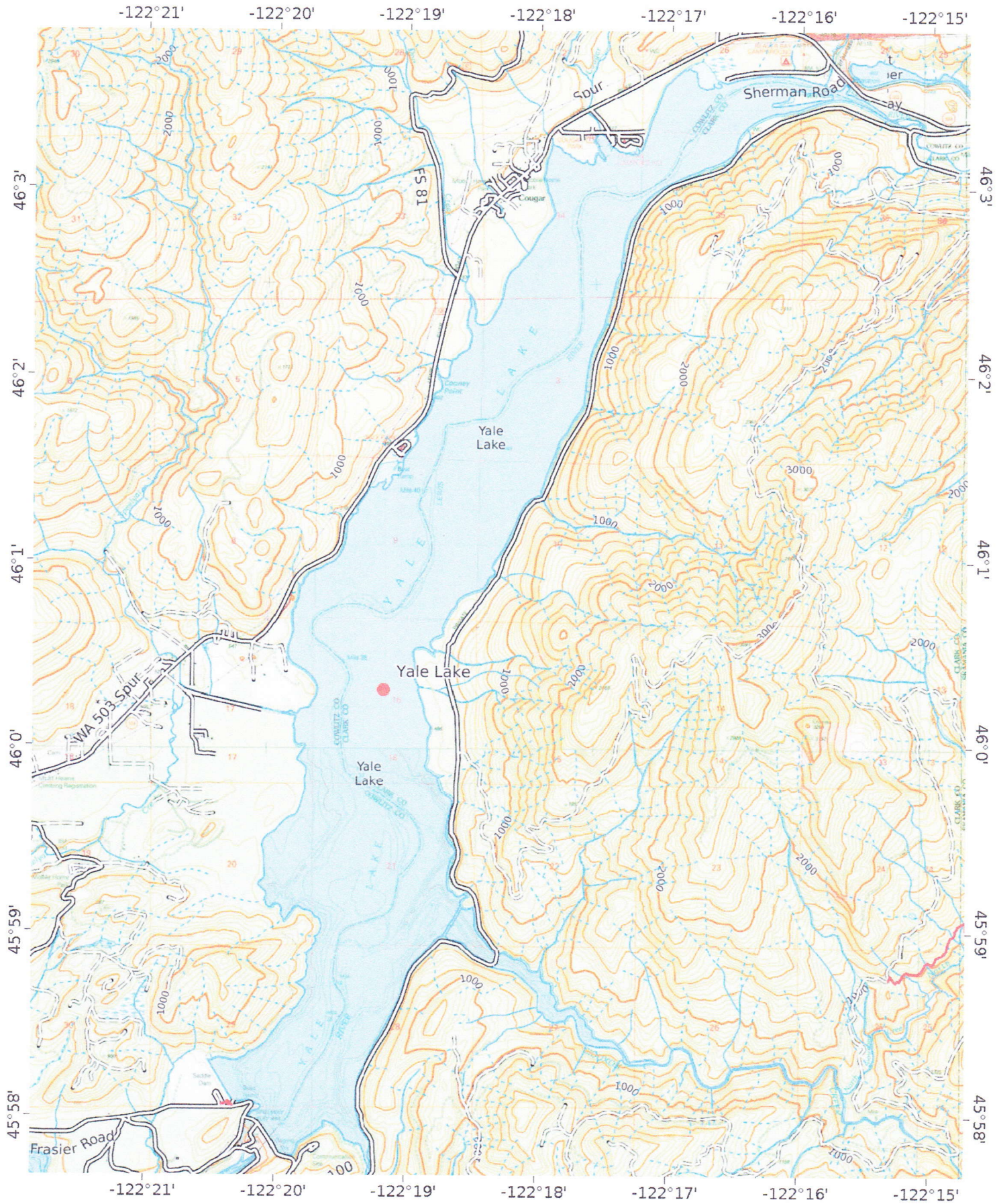
Once you have the area of interest, here Yale Lake, switch the layers to a topo layer and the overlays that are useful, here 40' contours and mapbuilder overlay.



At this point it's useful to save the map. One way to do this is to add a marker to the map, moving it to the center of the map and labeling it, then click save map in the upper left.
To get a printout, choose the *Print* pull down and select *print to pdf or jpg* .
On the screen that comes up, choose the options that you like. In the example below, printing to 8 ½ x 11 paper, 1 to 50,000 scale, a title, grid lines of long/lat in deg and decimal minutes and portrait mode are selected. Additionally, the map printout needs to be centered where you want it by moving the red dot on top of the map



When ready, click the generate pdf button on the lower left. After the map generates on another tab, you can download it to your PC like was done with the NOAA chart.
Lastly, using Adobe Acrobat again, open the pdf and print it.
As additional resources, under the Caltopo pull-down menu, there is a *Guided Tour* option.
Also, there is a good youtube tutorial on Caltopo at:
https://www.youtube.com/watch?v=zjUo6PwHmAQ&t=0s&list=PLkYHuimd2BspoT35iDNVnvK6xBsRyhRGA&index=17



Yale Lake
WGS84
USNG 10TER-10TES

CalTopo

1 2 3 4 5km
1 2 3mi

Scale **1:50000** 1 inch = 4167 feet

N
MN
15°